

Titan 12



TITAN 12 User's Manual



**2-WAY PROFESSIONAL
PASSIVE LOUDSPEAKER**

www.wharfedalepro.com

Titan 12

U S E R ' S M A N U A L

Titan 12 is the latest innovation from Wharfedale Pro. A high performance passive speaker system designed around your needs. High output, punchy low end and extended high frequency response that's equally at home with music and speech. An ultra-lightweight composite enclosure that's designed to be stand mounted, arrayed or even used as a floor monitor. Compact, lightweight and affordable, the Titan 12 still packs professional drivers that deliver unmatched performance.

TITAN 12 • 2-way Passive Loudspeaker

Warnings & Safety Instructions

1. **READ ALL INSTRUCTIONS** carefully and become familiar with the features and functions of this product before operating it.
2. **RETAIN THESE INSTRUCTIONS** for future reference.
3. **COMPLY WITH ALL WARNINGS** – All warnings and instructions for this product should be adhered to.
4. **USE WITH AMPLIFIERS** – In order to avoid damage to drivers and other equipment, it is advisable to establish and follow a routine for powering up and powering down a sound system. With all system components connected, turn on source equipment (mixers, signal processors, record and playback units, etc.) **BEFORE** powering up amplifiers. Transient voltages from powering up source equipment can damage speakers if amplifiers are turned on when these sources are powered up. Make sure that amplifier volumes are set to their minimum settings and power up any system amplifiers **LAST**. It is recommended that all system components be allowed to stabilize for several seconds before any source signals are introduced or level setting adjustments are made.

Similarly, when shutting systems down, turn all amplifiers off first, before powering down any other system components.

5. **CABLES** – Do not use shielded or microphone cables for connection between amplifiers and speakers. Use only approved speaker cables with proper connectors.
6. **RIGGING – SUSPENDING – MOUNTING** – Rigging, suspending and mounting of this speaker system can expose members of the public to serious health and risks and even death. **UNDER NO CIRCUMSTANCES ATTEMPT TO RIG, SUSPEND OR OTHERWISE MOUNT THIS SYSTEM UNLESS YOU ARE FULLY QUALIFIED AND CERTIFIED TO DO SO BY RELEVANT LOCAL, STATE AND NATIONAL AUTHORITIES. ALL RELEVANT SAFETY REGULATIONS MUST BE FOLLOWED. IF YOU ARE NOT PROPERLY QUALIFIED OR DO NOT KNOW OF PERTINENT REGULATIONS, CONSULT QUALIFIED PERSONNEL FOR ADVICE.**
7. **CAUTION** – These professional loudspeaker systems are capable of generating very high sound pressure levels. Use care with placement and operation to avoid exposure to excessive volume levels that can cause permanent hearing damage if operated to extremes.
8. **SERVICE** – There are no user serviceable parts inside this product. Users should not attempt to service this product. Warranty nullification could result if this is attempted.

Thank you for purchasing the Wharfedale Pro TITAN 12!

The TITAN 12 offers acoustical voicing and drivers that provide a smooth high end response and a punchy, tight low end bass response in a surprisingly small and portable composite enclosure.

Features:

- + Custom designed, heavy duty 12" low frequency driver
- + 1.75" titanium high frequency compression driver
- + 90 x 60 degree integral Elliptical Wave Guide for even high frequency dispersion
- + Built in 18dB per octave Linkwitz-Riley crossover
- + DTF™ Dynamic Thermal Filament – Integral High-Frequency Driver
Overload protection
- + High frequency EQ switch (boost/flat)
- + Design for a wide variety of sound reinforcement applications
- + Built in, rubberized easy-grip handles for convenient transportation
- + Integral pole mount adapter for stand mounting
- + Trapezoidal shape for vertical arrays and horizontal stage monitor use
- + Top stacking feature for easy integration of multiple enclosures
- + Ten M8 threaded rigging inserts for several hang-mount options
- + Bottom mounted M8 threaded inserts that fit OmniMount® 60.0 footprint
- + Injection molded enclosure construction
- + Integral cord wrap and cable anchor molded into the enclosure
- + Dual 1/4" and NL4 input connectors

Operation

The TITAN 12 is a passive, two-way, speaker system that provides an 8 ohm impedance load, per enclosure, to each output channel of the system power amplifier. Multiple TITAN 12 enclosures can be “daisy-chained”, in parallel, with the impedance load dropping in half with each additional enclosure. In other words, two TITAN 12 enclosures, connected in parallel, will provide a 4 Ohm impedance load. Like wise, three TITAN 12 enclosures connected in parallel will provide a 2 ohm impedance load to the amplifier. Be aware that some amplifiers are not designed to accept loads as low as 2 ohms and loads this low can result in decreased performance and overheating of the amplifier and can cause damage to amplifier electronics. Consult the manufacturers operating manual for the amplifier before connecting multiple speakers together.

The HIGH FREQUENCY EQ switch provides a 3dB boost to the high frequency driver for long throw applications. Switch selections are “BOOST” (3dB increase) and “FLAT” (no increase).

Connections

The TITAN 12 input connections from the output of the amplifier will be via 1/4” phone jacks or Speakon® NL4 connectors that are located on the rear mounted input plate. NL4 connector pin wiring is configured as follows:

+1 = Positive

-1 = Negative

Optional Accessories

- + **Wall mount bracket** – Enables surface mounting with pan and tilt positioning for fixed installations
- + **Titan Tour Bag** – Ballistic nylon zippered carrying bag with storage pocket for cables

TITAN 12 Specifications

Loudspeaker Type:	12" 2-way
Frequency Response (+/-3dB):	55-20kHz
Sensitivity (1W@1M):	98dB
HF Coverage (H x V):	90° x 60°
Peak SPL:	128dB
System Impedance:	8 ohm

POWER HANDLING CAPABILITY (WATTS)

Continuous:	250W
Music:	500W
Peak:	1000W

LOW FREQUENCY DRIVER

Size:	305mm/12"
Coil Size:	64.26mm / 2.5"

HIGH FREQUENCY DRIVER

Type:	Compression Driver
Coil Size:	44mm/1.75"
Exit Size:	25mm/1"
Diaphragm Material:	Titanium
HF Driver Protection:	DTF™ Dynamic Thermal Filament
HF Long-Throw EQ Compensation:	3dB boost (long-throw) / Flat (near-field)

HIGH FREQUENCY HORN

Type:	EWG™ - Elliptical Waveguide
Throat Size:	25mm/1"

CROSSOVER

Type:	2-way
Frequency/Filter:	2.2KHz / Linkwitz-Riley

ENCLOSURE

Shape:	Trapezoidal for vertical array and horizontal stage monitor applications
Material:	Polypropylene
Rigging:	+ (10) M8 threaded rigging points for safe flown applications + (4) M8 threaded rigging points on bottom in Omnimount® 6.0-type footprint + Speaker pole-mount receptacle with lock screw + Optional wall-mount bracket + Optional dual-unit array speaker stand hardware

IN/OUT PANEL

Input Connectors:	(2) 1/4" jacks '+ (2) NL4 connectors
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DIMENSIONS/WEIGHTS

Net Weight:	12kg / 26.4lbs
Gross Weight:	14kg / 30.8lbs
Dimensions (H x W x D):	556 x 384 x 312mm / 21.88" x 15.1" x 12.3"

***Features, details and specifications subject to change without notice**

THE WHARFEDALE PRO ADVANTAGE

While other companies increasingly out-source manufacturing, we continue to add to our factory; already at 1.5 million square feet in size. That's because at Wharfedale Pro we design, engineer, tool and manufacture each and every component that goes into our speaker systems. All of which helps explain how we can pack so much technology, performance and quality into our products at an incredibly low cost. Recognized since 1932 as a pioneering brand, Wharfedale Pro is now part of the International Audio Group with operations and distribution worldwide. Our mission remains to design and build the very best Pro Audio gear possible, with great technologies, abundant features and unmatched quality at the very lowest possible cost. That's the Wharfedale Pro advantage!



UNPACKING

All Wharfedale Pro products are fully checked before leaving the factory. After unpacking please inspect cabinets for any physical damage. Please retain the shipping carton if possible and internal packing material in case the unit needs to be returned. Please check as soon as possible that the unit is functioning. In the event of any damage, please contact your dealer immediately.

WHARFEDALE PRO LIMITED WARRANTY *

Wharfedale Titan loudspeaker systems are warranted to be clear of manufacturing or materials defects for a period of one year from the original date of purchase. In the event of malfunction, contact your authorized Wharfedale Professional dealer or distributor for information.

* Be aware that warranty details may differ from country to country. Contact your dealer or distributor for information. These terms do not infringe your statutory rights.

INTERNATIONAL PATENT PROTECTION ZL 200530151345.9

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